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APPLICATION NO. FILING DATE 09/204,706 12/03/1998	FIRST NAMED INVENTOR RAVIKUMAR RAMACHANDRAN	ATTORNEY DOCKET NO. 98-P-7501-US	CONFIRMATION NO. 5853
The Law Office of Jerome J Norris 1901 Pennsylvania Avenue Suite 305 Washington, DC 20006		EXAMINER OLSEN, ALLAN W	
		ART UNIT 1746 DATE MAILED: 12/18/200	PAPER NUMBER

Please find below and/or attached an Office communication concerning this application or proceeding.

			MH-18
	Application No.	Applicant(s)	-W-L
	09/204,706	RAMACHANDRA	AN ET AL.
Office Action Summary	Examiner	Art Unit	
	Allan W. Olsen	1746	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet wi	th the correspondence a	ddress
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a r v within the statutory minimum of thirt vill apply and will expire SIX (6) MON cause the application to become AE	eply be timely filed y (30) days will be considered tim THS from the mailing date of this ANDONED (35 U.S.C. § 133).	ely. communication.
1) Responsive to communication(s) filed on 01 N	November 2001 .		
2a) This action is FINAL . 2b) ⊠ Th	is action is non-final.		
3) Since this application is in condition for alloward closed in accordance with the practice under			he merits is
Disposition of Claims			
4)⊠ Claim(s) 13-17 is/are pending in the application	n.		
4a) Of the above claim(s) is/are withdraw	wn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>13-17</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/or	r election requirement.		
Application Papers			
9)☐ The specification is objected to by the Examine	r.		
10)☐ The drawing(s) filed on is/are: a)☐ accep	oted or b) objected to by t	he Examiner.	
Applicant may not request that any objection to the	e drawing(s) be held in abeya	ance. See 37 CFR 1.85(a)).
11)☐ The proposed drawing correction filed on	_ is: a)☐ approved b)☐ d	isapproved by the Exami	ner.
If approved, corrected drawings are required in rep	oly to this Office action.		
12)☐ The oath or declaration is objected to by the Ex	aminer.		•
Priority under 35 U.S.C. §§ 119 and 120			
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:			
1. Certified copies of the priority documents	s have been received.		
2. Certified copies of the priority documents	s have been received in A	pplication No	
 3. Copies of the certified copies of the prior application from the International Bu * See the attached detailed Office action for a list 	reau (PCT Rule 17.2(a)).		ıl Stage
14) Acknowledgment is made of a claim for domesti	c priority under 35 U.S.C.	§ 119(e) (to a provision	al application).
 a) ☐ The translation of the foreign language pro 15)☐ Acknowledgment is made of a claim for domesting 	, ,		
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of	Summary (PTO-413) Paper N Informal Patent Application (P	
S. Patent and Trademark Office	 		

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DETAILED ACTION

Continued Prosecution Application

The request filed on 11//1/2001 for a Continued Prosecution Application (CPA) under 37 CFR 1.53(d) based on parent Application No. 09/204,706 is acceptable and a CPA has been established. An action on the CPA follows.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims15 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 15 recites the limitation "[t]he integration metal etch tool of claim 13...".

There is insufficient antecedent basis for this limitation because claim 13 recites "an integrated metal etch tool".

Examiner's Note Regarding Claim Interpretation and 35 USC § 112 6th Paragraph

The instant claims are drafted using "means to..." and "means for..." language.

However, the claims do not invoke the 6th paragraph of 35 USC 112 because they fail to meet the third prong of the three prong analysis detailed in MPEP 2181.

A claim limitation will be interpreted to invoke 35 U.S.C. 112, sixth paragraph if it meets the following 3-prong analysis:

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(A) – the claim limitations must use the phrase "means for " or "step for ";

- (B) the "means for " or "step for " must be modified by functional language; and
- C) the phrase "means for " or "step for " must not be modified by sufficient structure, material or acts for achieving the specified function.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 13-17 are rejected under 35 U.S.C. 102(b) as being anticipated by U. S. Patent 5,545,289 issued to Chen et al. (hereinafter, Chen).

Claim 13: Chen teaches an integrated RIE metal etching apparatus (column 12, lines 1-2, 30-36). Chen does not use the word "integrated", nevertheless, the apparatus of Chen contains an etching chamber (not pictured) which is connected to a separate passivating and stripping chamber (column 12, lines 3-8). The apparatus of Chen contains the necessary components to supply a mixture of an etching gas and an acid neutralizing gas into a vacuum chamber (column 13, lines 39-41). Chen demonstrates that the passivating chamber, which is separate from the etching chamber, is capable of forming a water-only plasma (column 17, Table VI, examples 43-45). Chen's apparatus

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includes a plasma generation zone that is remote from the substrate supporting structure (see figure 2, column 5, line 66-column 6, line 8). The citations noted above teach each apparatus limitation of instant claim 13.

Claims 14 and 15: Chen teaches that the temperature of a substrate contained within the separate chamber may be controlled within the range of 150/C to 400/C. The temperature may be held constant or the temperature may be varied. As such, Chen meets the apparatus limitations of claims 14 and 15.

Claims 16 and 17 contain no apparatus limitation that was not previously presented in claims 13-15. Therefore, the above noted column and line citation of Chen are applicable to claims 16 and 17 as well.

Claims 13-17 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent 4,816,098 issued to Davis et al. (hereinafter, Davis).

Davis teaches a multi-chamber apparatus. The vacuum chambers of Davis include: gas supply lines; remote plasma generation means; substrate heating means; and substrate temperature controlling means. The apparatus of Davis contains all the components to meet the apparatus limitations of claims 13-17. Furthermore, these components are arranged such that the apparatus of Davis is capable of performing the method limitations set forth in claims 13-17. See column 60, lines 34-54; column 44, lines 33-47.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Allan Olsen whose telephone number is (703) 306-9075. The examiner can normally be reached on Monday through Friday from 9:30 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Randy Gulakowski, can be reached on (703) 308-4333. The fax phone number for this Group is (703) 305-7719.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0661.

Me w. Ols

Allan Olsen, Ph.D.

December 17, 2001